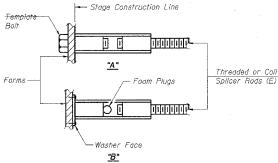


BAR SPLICER ASSEMBLY ALTERNATIVES

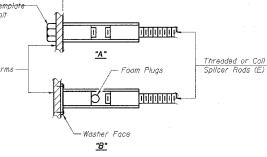
WELDED SECTIONS

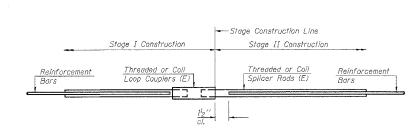
** Heavy Hex Nuts conforming to ASTM A 563, Grade C, D or DH may be used.



INSTALLATION AND SETTING METHODS

"A" : Set bar splicer assembly by means of a template bolt. "B": Set bar splicer assembly by nailing to wood forms or cementing to steel forms. (E) : Indicates epoxy coating.





NOTESBar splicer assemblies shall be of an approved type and shall develop in tension at least

Other systems of similar design may be submitted to the Engineer for approval. Approval shall be based on certified test results from an approved testing laboratory that the proposed

BAR SPLICER ASSEMBLIES

kips - tension

33.1

45.1

58.9

75.0

95.0

117.4

Strength Requirements

Min. Capacity Min. Pull-Out Strengt.

12.3

17.4

23.8

31.3

39.6

50.3

125 percent of the yield strength of the lapped reinforcement bars.

Splicer rods shall be of minimum 60 ksi yield strength, threaded or coiled full length.

All reinforcement bars shall be lapped and tied to the splicer rods or dowel bars.

Bar splicer assemblies shall be epoxy coated according to the requirements for

bar splicer assembly satisfies the following requirements:

Bar Size to

#4

#5

#6

#7

#8

#9

#10

(2) Classing in kins)

(3) Interest of the control of the control

Splicer Rod or

2'-0'

3'-5"

4'-6'

7'-3"

be Spliced | Dowel Bar Length

Where fy = Yield strength of lapped reinforcement bars in ksi. A_t = Tensile stress area of lapped reinforcement bars. * = 28 day concrete

reinforcement bars.

<u>STANDARD</u>

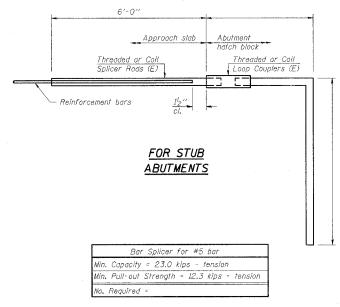
Bar Size	No. Assemblies Required	Location
#5	24	025-0030
#6	4	025-0030

BAR SPLICER ASSEMBLY DETAILS

Bridge Deck Approach Slab Reinforcement Loop Couplers (E)

FOR INTEGRAL OR SEMI-INTEGRAL ABUTMENTS

	Bar Splicer for #5 bo	ar
Min.	Capacity = 23.0 kips - ten	sion
Min.	Pull-out Strength = 12.3 ki,	ps - tension



BSD-1

									5	SHEET NO. 7 7 SHEETS		
FILE NAME =	USER NAME = thoelekl	DESIGNED -	REVISED -				F.A.P RTF.	SECTION	COUNTY	TOTAL SHEET		
c:\projects\74251d\karenbridge_74251.dg		DRAWN -	REVISED -	STATE OF ILLINOIS		BAR SPLICER ASSEMBLY DETAILS	774	*	EFFINGHAM	33 17		
	PLOT SCALE = 20.0000 '/ IN.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION					CONTRACT	T NO. 74251		
	PLOT DATE = 3/27/2008	DATE -	REVISED -	·	SCALE:	SHEET NO. OF SHEETS STA. TO STA.	FED. ROAD DI'	ST. NO. ILLINOIS FED.	LINOIS FED. AID PROJECT			
		-					* (1-1MFT,1-	* (1-1MFT,1-WMFT,104Z,104)RS-2				